S. E. LEIGH.

WASHING-MACHINE.

No. 188,382. Patented March 13, 1877.

Fig. 1.

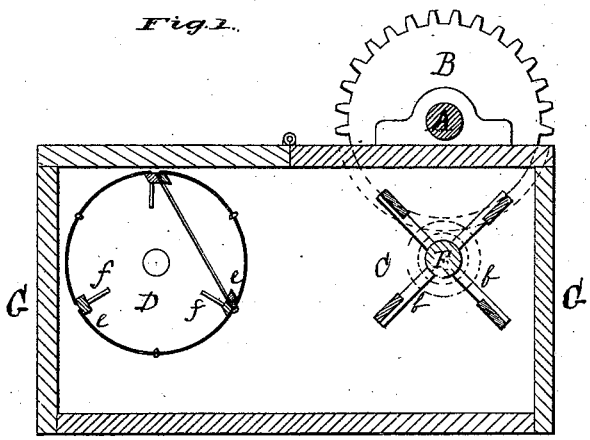
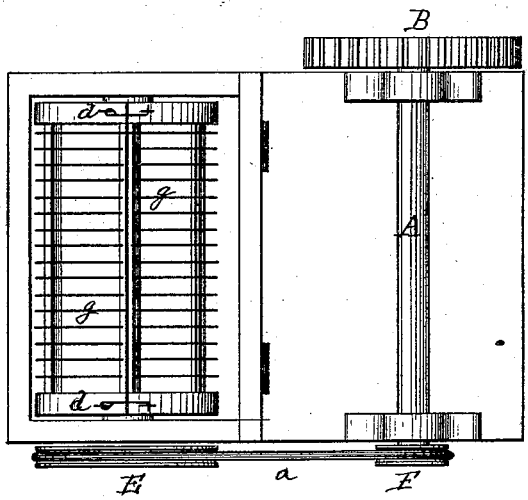


Fig. 2.



Witnesses.

E. Nichols

S. L. Maulon.

Inventor:

S. E. Leigh

UNITED STATES PATENT OFFICE.

SAMUEL E. LEIGH, OF CHEROKEE, KANSAS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **188,382**, dated March 13, 1877; application filed November 17, 1876.

To all whom it may concern:

Be it known that I, SAMUEL E. LEIGH, of the city of Cherokee, county of Crawford, and State of Kansas, have invented an Improvement in Washing-Machines; and I do hereby declare that the following is a full and exact description of the same.

The machine is so constructed that it will save labor and the usual wear and tear of clothes in washing to a great extent.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

I construct the box (an oblong square) of wood, which has the machinery attached and inclosed in the same. The machinery consists of the main shaft A, with cog-wheels B, according to Figure 1. C is a paddle-wheel with pinion, run by cog-wheel on main shaft, according to Fig. 1. D is a revolving cylinder, made of wood, wire, and iron, run, from pulley attached to main shaft, by belt *a*, Fig. 2. The machine is moved by a crank-wheel attached to main shaft.

The operation is as follows: The clothes are put into the cylinder, and, when the machinery is put in motion, the paddle-wheel forces water through the wires of the cylinder upon the clothes, that are carefully turned over by a slow revolution of the cylinder.

The paddle-wheel, Fig. 1, consists of a shaft, F, resting in bearings secured to the box inclosing the machine. This shaft runs the entire length of the wheel, and one end, projecting beyond the box, is connected to the gearing by pinion. Eight arms, four near either end, extend from this shaft, at equal distance from each other. At the extremities of these arms *b* paddles *c* are attached, made of either wood or any suitable metal, and fastened to the arms by either screws or bolts. The cylinder D consists and is constructed of two circular heads of wood, *d d*. Upon the center of these heads two iron plates are fastened. From the center of each an iron pin projects, and rests upon bearings secured to the box, upon one end of which a pulley-wheel, E, is attached, connecting the cylinder with the gearing of the machine. These cylinder-heads *d d* are connected together by five, more or less, bars, *e e*. From these bars short pegs or hooks *f* project inward to hold the clothes in position. Wires *g g* are placed around the cylinder at short distances apart, passing either through or over the bars. One section of the cylinder is fastened by hinges, so as to be opened to admit and remove the articles to be washed. This section or door is secured by any suitable fastening so as to remain closed while the machine is in operation.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the box G and gearing B, with the paddle-wheel C and cylinder D, having pulleys E and F, and cord *a*, substantially as and for the purpose specified.

S. E. LEIGH.

Witnesses:

SOL SMITH,

I. G. MCKIBBAN.